COMPACTION TEST - DRIVE CYLINDER METHOD

Landowner	County	Practice	
Ву	Title	Date	_
Referenced Proctor Curve	· · · · · · · · · · · · · · · · · · ·		
Maximum Dry Density (γ _d max) pcf	Optimum Moisture	% Specific Gravity (Gs)	g/cc
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Test No.	Location	Elevation	Wc (g)	Wcs (g)	Wm (g)	Wm (lb)	SP (%)	w (%)	Wd (lbs)	γ _d (pcf)	Compaction (%)	W _{sat}	Saturation (%)	Density passes (yes/no)	Moisture passes (yes/no)

Wc = Weight of Cylinder in grams
Wcs = Weight of Cylinder and Soil in grams
Wm(g) = (Wcs - Wc) = moist weight of soil in grams
Wm (lbs) = Wm(g) X 0.0022 = moist weight of soil in pounds
SP = Speedy Moisture Meter Gage Reading
w = Sample Moisture Content (from speedy conversion chart)

Wd = Dry Weight of Sample = Wm/ (1+w) γ_d = Dry Unit Weight of Sample = Wd/volume of cylinder (Volume of cylinder usually 0.033 ft³) Compaction = (γ_d / γ_d max) X 100 γ_d w_{sat} = [(γ_w / γ_d) - (1/Gs)] x 100 NOTE: (γ_w = 62.4 lb/ft³) Saturation = (γ_d v_{sat}) x 100